

## AMENDMENTS TO THE CLAIMS

## In the Claims

The following listing of claims replaces all prior versions and listings of claims in the application.

## Listing of Claims

1. (Currently Amended) An anode module [(1)] for a liquid metal anode x-ray source ~~which has an electron entry window [(3)] in a region of focus, characterized in that~~ the anode module comprising:

an electron entry window on the anode module in a region of focus; and

an x-ray beam exit window (4) lies on a portion of the anode module opposite the electron entry window [(3)].

wherein and the an exit angle ( $\Theta$ ) of the x-ray beams (7) between an electron beam [(6)] ~~entering through that enters~~ the electron entry window [(3)] along [(the)] a direction of incidence [(5)] and [(the)] an x-ray beam[(s (7))] that exits exiting through the x-ray beam exit window [(4)] is between 5° and 50°.

2. (Currently Amended) An anode module [(1)] according to claim 1, ~~characterized in that wherein~~ the electron [(exit)] entry window [(3)] is [(a)] one of a metal foil, a diamond film, a ceramic material or a monocrystal in particular of tungsten, from 5  $\mu$ m to 30  $\mu$ m thick, or a diamond film, a ceramic material or a monocrystal.

3. (Currently Amended) An anode module [(1)] according to claim 1, ~~characterized in that wherein~~ the x-ray beam exit window [(4)] is a steel sheet from 100  $\mu$ m to 400  $\mu$ m thick.

4. (Currently Amended) An anode module [(1)] according to claim 1, ~~characterized in that wherein~~ in the region of focus [(2) it] the anode module is from 100  $\mu$ m to 350  $\mu$ m thick in [(the)] a direction of the incident electron beam [(6)].

5. (Currently Amended) An anode module [(1)] according to claim 1, characterized in that wherein in the region of focus [(2) it] the anode module has a constricting channel [(8)] in [(the)] a direction of the incident electron beam [(6)], and wherein outside the region of focus [(2)], the anode module is from 5 mm to 10 mm thick.
6. (Currently Amended) An anode module [(1)] according to claim 1, characterized in that wherein the electron entry window [(3)] is convexly curved perpendicular to [(the)] a direction of flow [(9)] of the liquid metal [(10)].
7. (Currently Amended) An anode module [(1)] according to claim 1, characterized in that wherein the x-ray beam exit window [(4)] is concavely curved perpendicular to [(the)] a direction of flow [(9)] of the liquid metal [(10)].
8. (Currently Amended) An anode module [(1)] according to claim 1, characterized in that wherein the focus length is 2 mm to 8 mm.
9. (Currently Amended) An anode module [(1)] according to claim 1, characterized in that wherein the effective focus size is 1 mm x 1.3 mm.
10. (Currently Amended) An anode module [(1)] according claim 1, characterized in that wherein an axis of the region of focus (2) runs parallel to the Y-Z plane which stands perpendicular to [(the)] a direction of flow [(9)] of the liquid metal [(10)].
11. (Currently Amended) An anode module [(1)] according to claim 1, characterized in that wherein [(the)] an angle of incidence ( $\alpha$ ) between the direction of incidence (5) of electron beam (6) and the Z-axis is between 5° and 65°.
12. (Currently Amended) An anode module [(1)] according to claim 1, characterized in that wherein [(the)] an anode angle ( $\beta$ ) between the exit direction (12) of the x-ray beam (7) and the Y-axis is between 10° and 50°.

13. (Currently Amended) An anode module [[[1]]] according to claim 1, ~~characterized in that~~  
wherein the angle of incidence ( $\alpha$ ), the anode angle ( $\beta$ ) and the exit angle ( $\Theta$ ) all lie in ~~the Y-Z~~ a  
single plane.

14. – 15. (Canceled)

16. (New) An anode module according to claim 2, wherein the metal foil comprises tungsten.

17. (New) An anode module for a liquid metal anode x-ray source, the anode module  
comprising:

an electron entry window formed on the anode module in a region of focus,  
wherein the electron entry window is convexly curved perpendicular to a direction of

flow of the liquid metal.

18. (New) An anode module according to claim 17, further comprising:

an x-ray beam exit window on a portion of the anode module opposite the electron entry  
window,

wherein an exit angle ( $\Theta$ ) between an electron beam that enters the electron entry window  
along a direction of incidence and an x-ray beam that exits the x-ray beam exit window is  
between 5° and 50°